StorageTek SL8500

Licensing Information User Manual

E39384-04

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ORACLE

StorageTek SL8500 Licensing Information User Manual

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 *
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@@ HISTORY file:

  THIS IS THE HISTORY OF THE HWCLOCK PROGRAM

  02.05.17 BJH Versoin 2.16

  Add error messages to explain the failure when the hardware clock is not
  advancing. Change timeout on busywait method of rtc tick detection to
  a time instead of a million iterations.

  02.01.22 BJH Version 2.15

  Credibility check on drift is 5 minutes per day or 30 minutes total
instead of just 30 minutes total.

  User can have any zero year he wants for his hardware clock.
  --epoch option specifies explicitly; adjtime file remembers.
  (--epoch formerly just affected --setepoch). Kernel epoch value no
  longer affects anythings (except --getepoch). --arc makes zero year
  assumed to be 1952.

  01.08.18 BJH Version 2.14

  Works on PCI (newer) sparcs.

  01.05.05 BJH Version 2.13

  Add --fast option.

  Add --rtc option.

  Use /dev/misc/rtc instead of /dev/rtc if it exists.

  Validate that /dev/rtc, etc. is a character device special file.

  Don't select direct ISA clock access method if not superuser.

  Improve error and debugging messages concerning the search for a clock
  access method.

  00.04.21 BJH Version 2.12
```

```
Put detailed explanation of failure of open(/dev/rtc) in --debug output.

Fix bug in the 2 second timeout from Version 2.11.

00.02.15 BJH Version 2.11

Put 2 second timeout on wait for clock tick via /dev/rtc. Some rtc drivers
on some machines accept the "enable interrupt" ioctl, but aren't actually
capable of delivering the interrupt, so this stops Hwclock from just
hanging. When it times out, it reverts to a busywait for the clock tick.

00.12.02 BJH Version 2.10

Add fractional part of last adjustment time to adjtime file to improve
accuracy. Thanks to James P Rutledge <jimrutledge@earthlink.net>.

Fix compilation bug on Sparc (don't #include asm/io.h).

Use tm_isdst instead of 'daylight' to determine if it's DST for
--show. In glibc 2, 'daylight' tells only if DST exists; not if it
is in effect.

00.05.29 BJH Version 2.9

Record System Time changes in utmp, wtmp.

00.05.22 BJH Version 2.8

Account for Hardware Clock setting 500 ms retroactively, which made
hwclock always set the clock 500 ms fast. Also verify that the clock
got set to the expected value.

Add --correct option.

Tell in man page how to interpret --show output.

Put correct program name in NAME section of man page.

Tell in README file about bug in Red Hat 6.0 that keeps distributed binary
from working.

Tell in man page where to get adjtimex, date, and tzset.

Include version in all debug output.

Add local time zone name to --show output.

99.05.03 BJH Version 2.7

In --hctosys, account for uncorrected (accumulated) drift.

Move tzset() so the possible slow reading of files it does does not
impact timing.

Correct check for improbably large drift so it checks the absolute
value of the drift. Thanks ao112@rgfn.epcc.edu (James P. Rutledge).

Some debug output in days instead of seconds. Thanks ao112@rgfn.epcc.edu
(James P. Rutledge).
```

```
99.04.09 BJH Version 2.6

Fix compilation errors with some compilers and kernel and libc
interface headers. Make it work with glibc 2.

Work with KDHWCLK interface even if not compiled with kernel headers
that say it's in the kernel. (As long as it's actually in the kernel
at runtime!).

99.04.08 BJH Version 2.5

Make it work on Alphas without /dev/rtc. Thanks to David Mosberger
<davidm@azstarnet.com>, Jay Estabrook <jestabro@amt.tay1.dec.com>,
Martin Ostermann <ost@coments.rwth-aachen.de>, Andries Brouwer
<aeb@cwi.nl>. Most of this code is lifted from another program
called "clock" (not the original ancestor of hwclock) that has
circulated for use on Alpha.

Make it work on Sparc.

Add --badyear option. Thanks to David J Coffin (dcoffin@shore.net)
for the design of this.

Add --localtime option, local/UTC value in adjtime file, and defaults
for local/utc.

Don't set CMOS memory Byte 50 (century byte). On some machines,
that byte not only isn't used as a century byte, but it is used for
something else.

Don't update the drift factor if the variation is so huge that it
probably wasn't due to drift.

Compute drift factor with better precision.

98.08.12 BJH Version 2.4

Don't use century byte from Hardware Clock. Add comments telling why.


98.06.20 BJH Version 2.3.

Make --hctosys set the kernel timezone from TZ environment variable
and/or /usr/lib/zoneinfo. From Klaus Ripke (klaus@ripke.com).

98.03.05 BJH. Version 2.2.

Add --getepoch and --setepoch.

Fix some word length things so it works on Alpha.

Make it work when /dev/rtc doesn't have the interrupt functions.
In this case, busywait for the top of a second instead of blocking and
waiting for the update complete interrupt.

Fix a bunch of bugs too numerous to mention.

97.06.01: BJH. Version 2.1. Read and write the century byte (Byte
50) of the ISA Hardware Clock when using direct ISA I/O. Problem
```

```
  discovered by job (jei@iclnl.icl.nl).

  Use the rtc clock access method in preference to the KDGHWCLK method.
  Problem discovered by Andreas Schwab <schwab@LS5.informatik.uni-dortmund.de>.

  November 1996: Version 2.0.1. Modifications by Nicolai Langfeldt
  (janl@math.uio.no) to make it compile on linux 1.2 machines as well
  as more recent versions of the kernel. Introduced the NO_CLOCK
  access method and wrote feature test code to detect absense of rtc
  headers.


  Bryan Henderson based hwclock on the program "clock", in September
  1996. While remaining mostly backward compatible with clock,
  hwclock added the following:

    - You can set the hardware clock without also modifying the Linux
      system clock.

    - You can read and set the clock with finer than 1 second precision.

    - When you set the clock, hwclock automatically refigures the drift
      rate, based on how far off the clock was before you set it. (This
      is the drift rate that is used with the --adjust function to
      automatically adjust the clock periodically to compensate for drift).

    - More mnemonic GNU-style command line options.

    - Comments describing how the clock and program work to improve
      maintainability.

    - Removed the old dead I/O code that worked without the inb/outb
      instructions and without the asm/io.h definitions.

  The first version of hwclock was Version 2.

  Here is the history section from the "clock" program at the time it was
  used as a basis for hwclock:

  V1.0


  V1.0 by Charles Hedrick, hedrick@cs.rutgers.edu, April 1992.

********************
  V1.1
  Modified for clock adjustments - Rob Hooft, hooft@chem.ruu.nl, Nov 1992
  Also moved error messages to stderr. The program now uses getopt.
  Changed some exit codes. Made 'gcc 2.3 -Wall' happy.

*****
  V1.2

  Applied patches by Harald Koenig (koenig@nova.tat.physik.uni-tuebingen.de)
  Patched and indented by Rob Hooft (hooft@EMBL-Heidelberg.DE)

  A free quote from a MAIL-message (with spelling corrections):

  "I found the explanation and solution for the CMOS reading 0xff problem
   in the 0.99pl13c (ALPHA) kernel: the RTC goes offline for a small amount
```

```
   of time for updating. Solution is included in the kernel source
  (linux/kernel/time.c)."

  "I modified clock.c to fix this problem and added an option (now default,
   look for USE_INLINE_ASM_IO) that I/O instructions are used as inline
   code and not via /dev/port (still possible via #undef ...)."

 With the new code, which is partially taken from the kernel sources,
 the CMOS clock handling looks much more "official".
 Thanks Harald (and Torsten for the kernel code)!

*****
  V1.3
  Canges from alan@spri.levels.unisa.edu.au (Alan Modra):
  a) Fix a few typos in comments and remove reference to making
     clock -u a cron job. The kernel adjusts cmos time every 11
     minutes - see kernel/sched.c and kernel/time.c set_rtc_mmss().
     This means we should really have a cron job updating
     /etc/adjtime every 11 mins (set last_time to the current time
     and not_adjusted to ???).
  b) Swapped arguments of outb() to agree with asm/io.h macro of the
     same name. Use outb() from asm/io.h as it's slightly better.
  c) Changed CMOS_READ and CMOS_WRITE to inline functions. Inserted
     cli()..sti() pairs in appropriate places to prevent possible
     errors, and changed ioperm() call to iopl() to allow cli.
  d) Moved some variables around to localise them a bit.
  e) Fixed bug with clock -ua or clock -us that cleared environment
     variable TZ. This fix also cured the annoying display of bogus
     day of week on a number of machines. (Use mktime(), ctime()
     rather than asctime() )
  f) Use settimeofday() rather than stime(). This one is important
     as it sets the kernel's timezone offset, which is returned by
     gettimeofday(), and used for display of MSDOS and OS2 file
     times.
  g) faith@cs.unc.edu added -D flag for debugging

  V1.4: alan@SPRI.Levels.UniSA.Edu.Au (Alan Modra)
   Wed Feb 8 12:29:08 1995, fix for years > 2000.
   faith@cs.unc.edu added -v option to print version. */
```

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```
/* drivers/net/eepro100.c: An Intel i82557-559 Ethernet driver for Linux. */
/*
   NOTICE: For use with late 2.3 kernels only.
   May not compile for kernels 2.3.43-47.
      Written 1996-1999 by Donald Becker.

      The driver also contains updates by different kernel developers
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      Current maintainer is Andrey V. Savochkin <saw@saw.sw.com.sg>.
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```

```
      This driver is for the Intel EtherExpress Pro100 (Speedo3) design.
      It should work with all i82557/558/559 boards.

      Version history:
      1998 Apr - 2000 Feb  Andrey V. Savochkin <saw@saw.sw.com.sg>
            Serious fixes for multicast filter list setting, TX timeout routine;
            RX ring refilling logic;  other stuff
      2000 Feb  Jeff Garzik <jgarzik@mandrakesoft.com>
            Convert to new PCI driver interface
      2000 Mar 24  Dragan Stancevic <visitor@valinux.com>
            Disabled FC and ER, to avoid lockups when when we get FCP interrupts.
      2000 Jul 17 Goutham Rao <goutham.rao@intel.com>
            PCI DMA API fixes, adding pci_dma_sync_single calls where neccesary
*/
```

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 *
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 *
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/*
 *  Real Time Clock interface for Linux
 *
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 *
 *  This driver allows use of the real time clock (built into
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 *  interface supporting various ioctl() and also the
 *  /proc/driver/rtc pseudo-file for status information.
 *
 *  The ioctls can be used to set the interrupt behaviour and
 *  generation rate from the RTC via IRQ 8. Then the /dev/rtc
 *  interface can be used to make use of these timer interrupts,
 *  be they interval or alarm based.
 *
 *  The /dev/rtc interface will block on reads until an interrupt
 *  has been received. If a RTC interrupt has already happened,
 *  it will output an unsigned long and then block. The output value
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 *
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 *
 *  Based on other minimal char device drivers, like Alan's
 *  watchdog, Ted's random, etc. etc.
 *
 *  1.07    Paul Gortmaker.
 *  1.08    Miquel van Smoorenburg: disallow certain things on the
 *      DEC Alpha as the CMOS clock is also used for other things.
 *  1.09    Nikita Schmidt: epoch support and some Alpha cleanup.
 *  1.09a   Pete Zaitcev: Sun SPARC
 *  1.09b   Jeff Garzik: Modularize, init cleanup
 *  1.09c   Jeff Garzik: SMP cleanup
 *  1.10    Paul Barton-Davis: add support for async I/O
 *  1.10a   Andrea Arcangeli: Alpha updates
 *  1.10b   Andrew Morton: SMP lock fix
 *  1.10c   Cesar Barros: SMP locking fixes and cleanup
 *  1.10d   Paul Gortmaker: delete paranoia check in rtc_exit
 *  1.10e   Maciej W. Rozycki: Handle DECstation's year weirdness.
 *  1.11 William Sehnert: Hard fixed this driver to the Dallas 1670
 *                        running on the STK PPC-405 platforms.
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The build system, and the way in which TinyLogin invokes its component
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Special thanks are due to Chip Rosenthal for his fine testing efforts;
to Steve Simmons for his work in porting this code to BSD; and to Bill
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by Dr. Michael Newberry (miken@cs.adfa.oz.au) and Micheal J. Miller, Jr.
(mke@kaberd.rain.com). Effort in porting to AT&T UNIX System V Release
4 has been provided by Andrew Herbert (andrew@werple.pub.uu.oz.au).
Special thanks to Marek Michalkiewicz (marekm@i17linuxb.ists.pwr.wroc.pl)
for taking over the Linux port of this software.

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#  Thanks,
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zlib, Jean-loup Gailly and Mark Adler

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  <signature of Ty Coon>, 1 April 1989
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F

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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c. Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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